Table 1: Add New FOS Level 4

LEVEL_4	PARAGRAPH _ID	OBJECT _ID	RELEASE	TEXT	CLARIFICATION	REQ_TYPE	REQ_STATUS	VERIFICATION _METHOD	VERIFICATION _STATUS	CCR
ADD	F-PAS-10830		B	The EOC shall automatically schedule an activity containing high gain antenna (HGA) slew commands whenever a communications contact is scheduled which requires the AM-1 HGA to slew	A slew activity is scheduled when the current SN contact is scheduled for a different TDRS than the previous contact. AM-1 uses 4 slew activities - each one mapped to a different on-board vector slot number. The duration of the slews are calculated and include an operator-specified safety margin (nominally 30 seconds). If FDF gimbal angle predicts are unavailable, the slew duration will default to a maximum slew time (nominally 11 minutes, 19 seconds)	functional	approved	demo	unverified	
ADD	F-PAS-10835		B	The EOC shall provide the capability to display the NCC TDRS designator for a high gain antenna (HGA) slew mode.	The NCC designator (TDE, TDW, etc.) is derived from an internal mapping of AM-1 vector slot number to NCC TDRS ID.	functional	approved	demo	unverified	

LEVEL_4	PARAGRAPH_ID	OBJECT_ID	RELEASE	TEXT	CLARIFICATION	REQ_TYPE	REQ_STATUS	VERIFICATION_METHOD	VERIFICATION_STATUS	CCR
ADD	F-PAS-10840		B	The EOC shall schedule high gain antenna (HGA) slew activities to maximize the amount of tracking time on the previously scheduled TDRS.	The exception to this requirement is during HGA gimbal hot case avoidance. When hot case avoidance is enabled and the current in-view TDRS is in the "hot zone", the EOC will schedule the HGA to slew to a "cold" TDRS or the next scheduled TDRS after completion of the scheduled contact.	functional	approved	demo	unverified	
ADD	F-PAS-10850		B	The EOC shall provide the capability for the user to optionally enable or disable high gain antenna (HGA) gimbal hot zone avoidance during communications contact scheduling.		functional	approved	demo	unverified	
ADD	F-PAS-10855		B	The EOC shall display high gain antenna (HGA) gimbal hot zone view periods based on FOT-provided hot zone start/stop times.	Hot zones are calculated for each TDRS.	functional	approved	demo	unverified	
ADD	F-PAS-10860		B	When high gain	Antenna tracking	functional	approved	demo	unverified	

LEVEL_4	PARAGRAPH_ID	OBJECT_ID	RELEASE	TEXT	CLARIFICATION	REQ_TYPE	REQ_STATUS	VERIFICATION_METHOD	VERIFICATION_STATUS	CCR
				antenna (HGA) gimbal hot zone avoidance is enabled, the EOC shall schedule slew activities such that HGA tracking of a TDRS is avoided within the predicted HGA gimbal hot zone for that TDRS, unless the HGA tracking time is below a pre-determined amount of time.	time is calculated based on FDD-provided HGA gimbal angles. If FDD-provided gimbal angle predicts are not available, a maximum HGA tracking time is used. The pre-determined maximum HGA tracking time may be modified by the FOT.					
EOT										

Table 2: Add RBR to Level 4 Links

RELEASE_TO_L4	PARAGRAPH_ID	PARAGRAPH_ID
LINK	EOC-2200#B	F-PAS-10830
LINK	EOC-9020#B	F-PAS-10835
LINK	EOC-2200#B	F-PAS-10840
LINK	EOC-9010#B	F-PAS-10850
LINK	EOC-9020#B	F-PAS-10855
LINK	EOC-2200#B	F-PAS-10860
EOT		